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THERMAL NEUTRON FLUX IN THE ARGONNE HEAVY-WATER PILE

by

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This pile is normally operated at a power in the neighborhood of 300 KW. For experimental reasons there sometimes are very considerable departures from this value. Irradiation of chemicals and materials is usually carried out either in a thimble centrally located in the pile, or a region in the reflector of the pile near the peripheral boundary.

The thermal neutron flux in the central thimble is definitely dependent upon what materials are in the thimble. As a general rule, however, this flux is approximately 10^{12} neutrons/cm^2/second.

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